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STATE OF WASHINGTON

DEPARTMENT OF ECOLOGY

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March 13, 1991

Larry Beard
Colbert Project Manager
Landau Associates
P.O. Box 1029
Edmonds, Washington 98020

RE: Encrustation in extraction/treatment system

Dear Mr. Beard:

Although Phase I is progressing according to schedule, Ecology is concerned with two, recent events:

- 1) Pilot Extraction Well CP-E1 had to be rehabilitated due to encrustation attributed to biological fouling. (January 1991 progress report)
- 2) The lower ten feet of the pilot stripping tower packing material had to be replaced due to scale accumulation. (February, 1991 progress report.)

The well had been in operation only a few days, and tower had been in operation only a few weeks. A successful Phase II, remediation will most likely require wells and tower(s) to remain in operation for several years.

Chemical\biological encrustation has been a sever problem on other pump and treat systems, and in some cases has required redesign and extensive maintenance.

Ecology requires that the circumstances in the well and tower be addressed in the Phase I engineering report, and that the report provide assurance that all reasonable consideration is given to preventing a precipitation problem in Phase II.

If you have any questions regarding this letter, please do not hesitate to contact me at 206-438-3079.

Sincerely,

Michael Kuntz
Site Cleanup Section
Toxics Cleanup Program

cc: Dean Fowler, Spokane County
Neil Thompson, EPA

